Program

The 46th Annual Meeting
of The Israel Endocrine Society

20-21, March, 2017
Kfar Maccabiah Hotel
Ramat-Gan
Contents

Welcome Address ................................................................................. 4

IES Executive Committee ................................................................... 5

Exhibitors .......................................................................................... 6

General Information ........................................................................... 7

Scientific Program ............................................................................. 10

Poster list .......................................................................................... 32
Welcome Address

Dear members, colleagues, and friends,

On behalf of the new executive committee of the Israel Endocrine Society, it is our pleasure to welcome you to our 46th annual meeting. After convening for two successive years outside of Tel Aviv (Ashkelon and Jerusalem), we are back in the Tel Aviv area.

This is the first scientific meeting that our new organizing team put together, and we are hopeful it will live to everybody’s expectations.

As part of our ongoing efforts to strengthen our ties with the European Society of Endocrinology and its affiliate societies, we will be hosting our first ESE lecture that will be delivered by Renato Pasquali from Italy. This year we are honored by the participation of several guest speakers who came from afar to be with us. We are indebted to John Nestler, Renato Pasquali, Jan-Wilhelm Kornfeld, and Yaron Tomer, who will be taking part in plenary lectures, symposia, and meet-the-professor sessions. We are no less thankful to our many local invited speakers, Sandra Alboim, Gad Asher, Izhav Ben Shlomo, Yuval Dor, Elena Dumin, Tal Imbar, Shalev Itskovitz, Yehonatan Saharabi, Ram Weiss, and Leonid Zeitlin, who didn’t travel far but put in the time and effort to contribute to a varied and exciting scientific program. We received an unprecedented number of abstracts, and in addition to slightly enlarged oral presentations sessions, you should be ready for a very intense poster session.

This year, we will feature a “Year in” session that will allow us to get the highlights of notable advances in the fields of adrenal, pituitary and reproduction.

On March 20th, the Israel Endocrine Society will honor Prof. Ytzik Koch, one of the founders and pillars of our society for his long term unconditional contribution and commitment. Please join us for this informal gathering that will take place in the afternoon, just before the MTP sessions.

We would like to take this opportunity to express our gratitude to the many volunteers who helped us with suggestions for sessions, with review of abstracts, and with their willingness to chair sessions. We are certain that our joint efforts together with your attendance will make this meeting a remarkable one.

As always, we are thankful to the Paragon company’s efficient staff for their professionalism and seriousness. Likewise, we are indebted to our many sponsors. Finally, we would like to thank each and everyone of you for being involved to help make our most important event of the year a truly outstanding one.

Looking forward to seeing you soon in Kfar HaMaccabiah.

Ruth Shalgi
Chair, Program Committee

On behalf of the IES Executive Committee
Carlos Benbassat, Galia Gat-Yablonski, Avraham Karasik, Gil Leibovitch, Rina Meidan, Yoel Toledano, Karen Tordjman
IES Executive Committee

Avraham Karasik, M.D., President
Yoel Toledano, M.D., Secretary
Carlos Benbassat, M.D., Treasurer
Galia Gat-Yablonski, Ph.D.
Gil Leibowitz, M.D.
Rina Meidan, Ph.D.
Ruth Shalgi, Ph.D.
Karen Tordjman, M.D.
The IES Thank our Sponsors and Exhibitors:

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**אדויל יייל ישראל בע"מ**  
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43664411  
פלא: 09-9606234  
יוסף גר.PLAINFIELD מנהל מוצרי

**אסטרהניקה**  
рова ז"צ, בניין E (ח),  
455 פארק מנדיצייל הוד השרון  
4524075  
פלא: 09-7406528  
Info.israelinfo@astrazeneca.com
General Information

Venue
Kfar Maccabiah Hotel
7 Bernstein St., Ramat-Gan

Dates
20-21 March, 2017
Registration Desk Hours
Monday March 20, 2017 07:30-16:30
Tuesday, March 21, 2017 07:30-16:30

Participants Name Badge
Upon registration you will receive the Meeting program, vouchers, and your name badge. You are requested to wear your name badge to all meeting functions and throughout the sessions.

Exhibition
A professional exhibition will take place during the meeting dates.

Abstracts
The IES respects the Environment. The IES 2017 Annual Meeting Abstracts are available on the IES website. Scan the code beside to view and download the abstracts and program.

Posters
The posters will be displayed at Hall D on Tuesday, March 21, 2017 from 07:30-17:30.

Oral Presentations
All oral presenters are requested to upload their presentation in their designated lecture hall at least 30 minutes prior to the beginning of the session, during meeting breaks.

ISRAEL ENDOCRINE SOCIETY
Website: http://www.ies.org.il

Meeting Secretariat
Paragon Israel | 15 Aba Even st., Herzeliya 4676652, Israel
Tel/Fax:972-3-5767716 | Email: torkabi@paragong.com
Conference
Time Table

The 46th Annual Meeting
of The Israel Endocrine Society

20-21, March, 2017
Kfar Maccabiah Hotel
Ramat-Gan
## Program at a Glance

**Monday, March 20, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location(s)</th>
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<tbody>
<tr>
<td>07:30-08:30</td>
<td>Registration, Gathering &amp; Exhibition Visit</td>
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<tr>
<td>08:30-10:00</td>
<td><strong>Oral Presentations: 3 parallel sessions</strong></td>
<td>Hall A, B, C</td>
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<tr>
<td></td>
<td>Reproduction</td>
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<td>Bone</td>
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<td></td>
<td>Diabetes (Basic)</td>
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<tr>
<td>10:00-10:15</td>
<td><strong>Coffee Break and Exhibition Visit</strong></td>
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<tr>
<td>10:15-10:30</td>
<td>Opening Session</td>
<td>Hall A</td>
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<tr>
<td>10:30-11:20</td>
<td><strong>Plenary lecture 1: John E Nestler</strong>, Department of Internal Medicine, Virginia Commonwealth University, Richmond, VA USA</td>
<td>Hall A</td>
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<tr>
<td></td>
<td>Chair: Yossi Orly</td>
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<tr>
<td></td>
<td>“Polycystic Ovary Syndrome and Risks for Diabetes and Cardiovascular Disease: Therapeutic Implications”</td>
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<tr>
<td>11:20-12:50</td>
<td><strong>The ESE lecture</strong></td>
<td>Hall A</td>
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<td></td>
<td>Chair: Daniela Jakubowicz</td>
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<td></td>
<td><strong>Symposium 2: Obesity and Metabolism</strong></td>
<td>Hall B</td>
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<td></td>
<td>Chairs: Eddy Karnielli; Amir Tirosh</td>
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### Parallel Symposia

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td></td>
<td><strong>Gad Asher</strong> - Circadian Clock Control of Metabolism</td>
<td>Hall B</td>
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<tr>
<td></td>
<td>Department of Biomolecular Sciences, Weizmann Institute of Science</td>
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<td></td>
<td><strong>Symposium 1: PCOS</strong></td>
<td>Hall B</td>
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<td></td>
<td>Chairs: Karen Tordjman; Daniela Jakubowicz</td>
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<td></td>
<td><strong>Ram Weiss</strong> - The Impact of Bariatric Surgery on Beta cell Function Hadassah Medical Center, Hebrew University, Jerusalem</td>
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<td></td>
<td><strong>Izhar Ben-Shlomo</strong> - The Impact of Carbohydrate-Poor Diet on Gut Microbiome of Women with PCOS. Baruch Padeh Medical Center, Poriya &amp; Faculty of Medicine in the Galilee, Bar Ilan University</td>
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<td></td>
<td><strong>Gabriella Liberman Segal</strong> - Role of Gut Hormone in Obesity Therapy Institute of Endocrinology; Sheba Medical Center</td>
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<td><strong>Rina Meidan</strong> - Distinct Hypoxic Responses in PCOS-Derived Granulosa Cell The Hebrew University</td>
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<td><strong>Talia Diker-Cohen</strong> - Leptin and Lipodystrophy Institute of Endocrinology and Metabolism Rabin Medical Center, Campus Beilinson</td>
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<tr>
<td>16:10-16:40</td>
<td><strong>Ceremony in Honor of Prof. Y. Koch</strong></td>
<td>Hall C</td>
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<tr>
<td>16:30 - 17:30</td>
<td><strong>MTP 1</strong> - PCOS</td>
<td>Hall A</td>
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<tr>
<td></td>
<td>John E Nestler, Renato Pasquali</td>
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<td></td>
<td><strong>MTP 2</strong> - Autoimmune Thyroid Diseases in Pregnancy</td>
<td>Hall B</td>
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<td></td>
<td>Yaron Tomer</td>
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<tr>
<td>12:50-13:50</td>
<td>Lunch Break and Exhibition Visit</td>
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</tbody>
</table>
| 13:50-14:40  | **Plenary lecture 2:**  
              Jan-Wilhelm Kornfeld, Max Planck Institute for Metabolism Research, Cologne, Germany.  
              Chair: Galia Gat-Yablonski  
              “DeCoding Obesity - Control of Metabolism by the Noncoding Genome”  
              **Hall A** |
| Parallel Symposia |                                                                 |
| 14:40-16:10  | **Symposium 3:**  
              Transitional Endocrinology  
              “Tips from the pediatric to the adult endocrinologist”  
              Chairs: Nehama Zuckerman-Levin, Liat de Vries  
              **Hall A** |
|              | **Symposium 4:**  
              Current topics in the Endocrine Labs - What Clinicians should know  
              Chairs: Naftali Stern; Yulia Schneider  
              **Hall B** |
|              | **Yardena Tenenbaum** - Combined Pituitary Hormone Deficiency (CPHD):  
              Significant Issues from Infancy to Adulthood  
              *Head, Pediatric Endocrine Unit; Ha’Emek Medical Center, Afula*  
              **Hall A** |
|              | **Yehonatan Sharabi** - Diagnosis and Evaluation of the Hypertensive Patient and the Use of Aldosterone/ 
              Direct renin Concentration Ratio Hypertension Unit, Sheba Medical Center  
              **Hall B** |
|              | **Leonid Zeitlin** - Osteoporosis and related diseases in children  
              *Department of Pediatrics; Dana-Duek Children's Hospital*  
              **Hall A** |
|              | **Elena Dumin** - Mass spectrometry-Based Metabolomics: Application to 
              Adrenal Diseases  
              *Clinical Biochemistry Laboratory Rambam Medical Center*  
              **Hall B** |
|              | **Mariana Rachmiel** - Disorders of Gonadal Differentiation  
              *Head, Pediatric Endocrine Unit; Assaf Harofeh Medical Center*  
              **Hall A** |
|              | **Sandra Alboim** - National Project to Determine 11-Deoxycortisol 
              Reference Range in the Israeli Population  
              *Central Laboratory Maccabi Healthcare Services*  
              **Hall B** |
|              | **Hannah Kanety** - Biotin Treatment Cause Misleading Hormones Results 
              *Institute of Endocrinology, Sheba Medical Center*  
              **Hall C** |
| 16:10-16:40  | Ceremony in Honor of Prof. Y. Koch  
              **Hall C** |
| 16:30 - 17:30| **MTP 1** - PCOS  
              John E Nestler and Renato Pasquali  
              PCOS-Tips for the Endocrinologist  
              **Hall A** |
|              | **MTP 2** - Autoimmune Thyroid Diseases in Pregnancy  
              Yaron Tomer  
              **Hall B** |
**Tuesday, March 21, 2017**

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<tr>
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<td>08:15-10:00</td>
<td><strong>Oral Presentations: 3 parallel sessions</strong></td>
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<td></td>
<td>Diabetes and Metabolism (clinical)</td>
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<td>Thyroid</td>
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<td>Hormones &amp; Cancer</td>
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<td><strong>Hall A</strong></td>
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<td>08:15-10:00</td>
<td><strong>Hall B</strong></td>
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<td>10:00-10:15</td>
<td><strong>Coffee Break and Exhibition Visit</strong></td>
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<td>10:15-11:00</td>
<td>Posters</td>
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<td><strong>Hall D</strong></td>
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<tr>
<td>11:00-12:30</td>
<td><strong>General Assembly and Prizes session</strong></td>
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<td>Chair – Avraham Karasik</td>
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<td>Lindner Prize Lecture (25 min)</td>
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<td>Chowers Prize Lecture (15 min)</td>
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<td>Prizes for Best Clinical/Basic Abstracts (10 min)</td>
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<td>IES Members Assembly Meeting</td>
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<td></td>
<td>VAAD report (20 min)</td>
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<td>Accountant Report (10 min)</td>
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<td><strong>Hall A</strong></td>
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<tr>
<td>12:30-13:30</td>
<td>Lunch Break and Exhibition Visit</td>
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<td>13:30-14:20</td>
<td><strong>Plenary lecture 3:</strong></td>
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<td></td>
<td><strong>Yaron Tomer</strong>, Chair, Department of Medicine, Albert Einstein</td>
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<td></td>
<td>College of Medicine</td>
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<td>Chair: Carlos Benbassat</td>
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<td><strong>Hall A</strong></td>
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<td></td>
<td>“Autoimmune thyroid diseases: from gene mapping to novel drug targets”</td>
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<td>14:20-15:50</td>
<td><strong>Parallel Symposia</strong></td>
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<td><strong>Symposium 5:</strong></td>
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<td></td>
<td><strong>The Year in Endocrinology</strong></td>
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<td></td>
<td>Chairs: Ben Glaser, Yona Greenman</td>
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<td><strong>Hall A</strong></td>
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<td><strong>Symposium 6:</strong></td>
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<td><strong>Cellular Heterogeneity</strong></td>
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<td>Chairs: Yehiel Zick; Gil Leibowitz</td>
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<td><strong>Hall B</strong></td>
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<td><strong>Tal Imbar</strong> - The year in reproduction</td>
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<td><strong>IVF Unit, Human Placenta Research Center; Dept. of Obstetrics &amp; Gynecology; Hadassah-Hebrew University Medical Center</strong></td>
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<td><strong>Assaf Rudich</strong> - Heterogeneity of adipose tissues and cells - a basis for subphenotyping obesity</td>
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<td></td>
<td><strong>Department of Clinical Biochemistry. Faculty of Health Sciences, Ben Gurion University</strong></td>
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<td></td>
<td><strong>Ilan Shimon</strong> - The year in pituitary</td>
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<td><strong>Institute of Endocrinology and Metabolism Rabin Medical Center, Campus Beilinson</strong></td>
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<td><strong>Shalev Itskovitz</strong> - Cellular heterogeneity in the liver: from single RNA molecule organization to organ function.</td>
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<td><strong>Department of Molecular Cell Biology, Weizmann Institute of Science</strong></td>
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<tr>
<td>15:50-16:05</td>
<td>Coffee Break</td>
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<td>16:05-17:30</td>
<td>MTP1</td>
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<td>MTP2</td>
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<tr>
<td>Parallel MTP</td>
<td>Zeev Hochberg</td>
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<td>Pnina Rotman and Iris Vered</td>
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</table>
Scientific Program

The 46th Annual Meeting of The Israel Endocrine Society

20-21, March, 2017
Kfar Maccabiah Hotel
Ramat-Gan

Organized by:
08:30-10:00  Parallel Sessions

08:30-10:00  Oral Presentations: Reproduction  
Chairs: Nava Dekel, Talia Eldar-Geva  

08:30  The Role of Hyaluronan during Blastocyst Attachment in Mice  
Elected as Best Basic Abstract  
Ron Hadas¹, Eran Gershon³, Michal Elbaz³, Shifra Ben-Dor², Nava Dekel¹,  
Michal Neeman¹  
¹Biological Regulation, The Weizmann Institute of Science, Rehovot  
²Life Sciences Core Facilities, The Weizmann Institute of Science, Rehovot  
³Animal Science, Agricultural Research Organization, Rishon Lezion  

08:43  Vasorin is A Newly Identified Regulator of Ovarian Folliculogenesis  
and Ovulation  
Nitzan Rimon, Lia Heinemann-Yerushalmi, Ron Hadas,  
Lital Kalich-Philosoph, Dalia Galiani, Nava Dekel  
Department of Biological Regulation, Weizmann Institute of Science,  
Rehovot  

08:56  The Role of Pigment Epithelium-Derived Factor (PEDF) in the  
Pathogenesis of PCOS  
Irit Miller¹, Dana Chuderland¹, Raphael Ron-El², Ido Ben-Ami², Ruth Shalgi¹  
¹Department of Cell and Developmental Biology, Sackler Faculty of Medicine,  
Tel-Aviv University, Tel-Aviv  
²IVF and Infertility Unit, Department of Obstetrics and Gynecology, Assaf  
Harofeh Medical Center, Zerifin  

09:09  PKA and EPAC Signaling Mediate Prostaglandin E2/EP2 Receptor-  
Induced Epiregulin and FGF2 in Granulosa Cells  
Ketan Shrestha, Rina Meidan  
Department of Animal Sciences, The Robert H. Smith Faculty of Agriculture,  
Food and Environment. Hebrew University of Jerusalem, Rehovot  

09:22  Normal Androgens Levels During Singleton Pregnancy in Healthy  
Women  
Anat Segev-Becker¹, Nili Yanai-Milshtein¹, Anita Schachter-Davidov¹²,  
Gabi Shefer²³, Naftali Stern²³, Galit Israeli¹, Naomi Weintrob¹²  
¹Pediatric Endocrinology and Diabetes, Dana Dwek children’s hospital, Tel Aviv  
²Sackler school of medicine, Tel-Aviv University, Tel Aviv  
³Institute of Endocrinology, Metabolism and Hypertension, Tel-Aviv Souraski  
Medical Center, Tel Aviv
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
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<tbody>
<tr>
<td>09:35</td>
<td>Anti-Mullerian Hormone Serum Levels Remain Stable under Cross-Sex Hormone Therapy of Transgender Men</td>
<td>Iris Yaish¹, Iris Yaish¹, Gustavo Melinger², Yael Sofer¹, Nechama Golani¹, Marianna Yaron¹, Dana Zaid¹, Foad Azem², Naftali Stern¹, Yona Greenman¹</td>
<td>¹Endocrinology, Metabolism and Hypertension, Tel Aviv-Sourasky Medical Center, Tel Aviv ²Lis Maternity Hospital, Tel Aviv-Sourasky Medical Center, Tel Aviv</td>
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<tr>
<td>08:30-10:00</td>
<td>Oral Presentations: Diabetes and Metabolism (Basic)</td>
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<tr>
<td>08:30</td>
<td>Connexin 43 Mediated Gap Junction Intercellular Communication Promotes the Propagation of Hepatic ER Stress in Obesity</td>
<td>Amir Tirosh¹,²,³,⁴, Gurol Tuncman¹, Ediz Calay¹, Yankun G Lee¹, Ana Paula Arruda¹, Abdullah Yalcin¹, Gokhan Hotamisligil¹</td>
<td>¹Department of Genetics and Complex Diseases, Sabri Ülker Center, Harvard T.H. Chan of Public Health, Boston, USA ²Division of Endocrinology, Diabetes and Hypertension, Brigham and Women's Hospital and Harvard Medical School, Boston, USA ³The Institute of Endocrinology, The Dalia and David Arabov Endocrinology and Diabetes Research Center, Tel Hashomer ⁴Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv</td>
</tr>
<tr>
<td>08:43</td>
<td>Endoplasmic Reticulum (ER) Stress Induces Diabetes By Impairing Postnatal β-cell Proliferation and Function</td>
<td>Yael Riahi, Shoshana Jimenez, Nava Polin, Ido Alter, Erol Cerasi, Gil Leibowitz</td>
<td>Department of Endocrinology and Metabolism, The Hebrew University-Hadassah Medical School, Jerusalem</td>
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<tr>
<td>08:56</td>
<td>CB1 Receptor Mediates Renal Lipotoxicity via AMPK Signaling</td>
<td>Shiran Udi¹, Liad Hinden¹, Brian Earley², Adi Drori¹, Rivka Hadar¹, Joseph Tam¹</td>
<td>¹Pharmacology, Obesity and Metabolism Laboratory, Institute for Drug Research, School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem ²Physiology, Laboratory of Physiological Studies, National Institute on Alcohol Abuse &amp; Alcoholism, Bethesda</td>
</tr>
</tbody>
</table>
09:09  **The Effect of Vitamin D on Platelet Function in Diabetic Patients with or without Aspirin Treatment**

*Maya Sultan*¹, Orit Twito², Erez Ramati³, Gloria Rashid¹

¹The Clinical Laboratories, Meir Medical Center, Kfar Saba
²Endocrinology, Diabetes and Metabolism Institute, Meir Medical Center, Kfar Saba
³Internal Medicine ward I, Sheba Medical Center, Tel Hashomer, Ramat Gan

09:22  **A Genetic Defect of the Mitochondrial Energy Supply: Characterization of a Novel NDUFAF5 Mutation**

*Sarah Zangen*¹, Aviram Kogot-Levin¹, Ann Saada², Itamar Raz¹

¹Diabetes Unit, Hadassah University hospital, Jerusalem
²Monique and Jaques Roboh Department of Genetic Research and The Department of Genetic and Metabolic, Hadassah University hospital, Jerusalem

09:35  **Quantitative Proteomics of Rat Livers Shows That Unrestricted Feeding Is Stressful For Proteostasis with Implications on Life Span**

*Galia Gat-Yablonski*¹,²,³ Andrija Finka⁴, Galit Pinto¹,³, Manfredo Quadroni³, Biana Shtai⁵,²,³, Pierre Goloubinoff⁴

¹Institute for Endocrinology and Diabetes, Schneider Children’s Medical Center of Israel, Petach Tikva
²Molecular Endocrinology Lab, Felsenstein Medical Research Center, Petach Tikva
³Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv
⁴Department of plant molecular biology, Faculty of Biology and Medicine, Lausanne University, Lausanne, Switzerland
⁵Protein Analysis facility, University of Lausanne, Lausanne, Switzerland

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08:30-10:00  **Oral Presentations: Bone**

**Hall C**

**Chairs:** Iris Vered, Rivka Pollak

08:30  **Application of FRAX-Based Osteoporosis Intervention: Impact on Public Health Using Real-World Data**

*Inbal Goldshtein*¹,², Moshe Leshno¹

¹Tel Aviv University, Faculty of management
²Maccabi Healthcare Services, Research Institute

08:43  **Fragility Fractures in Patients Admitted to Assaf Harofeh Medical Center: Clinical Characteristics and Pre-Fracture Risk Assessment**

*Dror Cantrell*¹,²,³, Eshter kumar¹,³, Shlomit Koren¹,³, Jonathan Persitz², Yigal Mirovsky²,³, Carlos A. Benbassat¹,³

¹Endocrine Institute, Assaf Harofeh Medical Center
²Orthopedics Department, Assaf Harofeh Medical Center
³Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv
08:56  **Atypical Femoral Fractures Among Patients from the Soroka Fracture Liaison Service**

Uri Yoel¹,², Dayana Cohen¹,², Viktoria Makarov²,³, Vitaly Medvedovsky¹,², Lior Baraf¹,², Tamar Eshkol¹,², Vera Polischuk¹,², Poliana Shamgar⁴, Michal Lamberger⁴, Avital Blum⁴,³, Orly Weinstein⁵,⁶, Dvora Lieberman⁶,⁷, Victor Novack⁴,³, Ethel Siris⁷, Merav Fraenkel¹,²

¹Soroka University Medical Center, Unit of endocrinology, Beer Sheva
²Soroka University Medical Center, Diagnostic Imaging Institute, Beer Sheva
³Soroka University Medical Center, Division of Internal Medicine, Beer Sheva
⁴Soroka University Medical Center, Clinical Research Center, Beer Sheva
⁵Soroka University Medical Center, Soroka Management, Beer Sheva
⁶Soroka University Medical Center, Giatrics, Beer Sheva
⁷Columbia University Medical Center, Division of Endocrinology, USA
⁸Ben-Gurion University of the Negev, Faculty of Health Sciences, Beer Sheva

09:09  **Long-Term Follow-Up of 10 Patients with Pseudohypoparathyroidism (PHP)**

Hanna Ludar¹,², Giovanna Mantovani³, Osnat Admoni¹, Ghadir Elias¹, Shira London¹, Hussein Majdoub⁴, Yardena Tenenbaum-Rakover¹,⁵

¹Pediatric Endocrine Institute, Ha'Emek Medical Center, Afula
²pediatric discipline, Clalit Health Services
³Endocrinology and Diabetology Unit, Department of Medical Sciences, University degli Studi di Milano, Milan, Italy
⁴Pediatric Endocrinology, Zvulon Health Services
⁵Rapaport Faculty of Medicine, Technion, Haifa

09:22  **Preliminary Experience with Trabecular Bone Score (TBS) Assessment in Israel**

Liana Tripto Shkolnik, Amir Tiqosh, Iris Vered

Institute of Endocrinology, Chaim Sheba Medical Center, Tel-Hashomer

09:35  **Alendronate Reduces the Risk of Bone Metastases in Osteoporotic Women with Early Breast Cancer**

Vanessa Rouach

Institute of Endocrinology, Metabolism and Hypertension, Tel Aviv-Sourasky Medical Center
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<th>Time</th>
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<td>10:00-10:15</td>
<td>Coffee Break, Refreshments and Exhibition Visit</td>
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<td>10:15-10:30</td>
<td>Opening Session</td>
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<td>10:30-11:20</td>
<td><strong>Plenary Lecture 1</strong></td>
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<td>Chair: Yossi Orly</td>
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<tr>
<td></td>
<td><strong>Polycystic Ovary Syndrome and Risks for Diabetes and Cardiovascular Disease: Therapeutic Implications</strong></td>
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<td>John E Nestler</td>
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<td>Department of Internal Medicine, Virginia Commonwealth University, Richmond, VA USA</td>
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<td>11:20-12:10</td>
<td><strong>Parallel Sessions</strong></td>
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<td>11:20-12:10</td>
<td><strong>The ESE lecture</strong></td>
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<td>Chair: Daniela Jakubowicz</td>
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<td></td>
<td><strong>Laboratory definition of Hyperandrogenism, and its Pathogenesis</strong></td>
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<td>Renato Pasquali</td>
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<td>University Alma Mater Studiorum of Bologna, Italy</td>
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<td>12:10-12:50</td>
<td><strong>Symposium 1: PCOS</strong></td>
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<td>Chairs: Karen Tordjman, Daniela Jakubowicz</td>
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<td>12:10</td>
<td><strong>The Impact of Carbohydrate-Poor Diet on Gut Microbiome of Women with PCOS</strong></td>
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<td>Izhar Ben-Shlomo</td>
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<td>Baruch Padeh Medical Center, Poriya &amp; Faculty of Medicine in the Galilee, Bar Ilan University</td>
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<td>12:35</td>
<td><strong>Distinct Hypoxic Responses in PCOS-Derived Granulosa Cell</strong></td>
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<td>Rina Meidan</td>
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<td>The Hebrew University</td>
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<td>11:20-12:50</td>
<td><strong>Symposium 2: Obesity and Metabolism</strong></td>
<td>Hall B</td>
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<td>Chairs: Chairs: Eddy Karnielli, Amir Tirosh</td>
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<td>11:20</td>
<td><strong>Circadian Clock Control of Metabolism</strong></td>
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<td>Gad Asher</td>
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<td>Department of Biomolecular Sciences, Weizmann Institute of Science</td>
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<td>11:45</td>
<td><strong>The Impact of Bariatric Surgery on Beta Cell Function</strong></td>
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<td>Ram Weiss</td>
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<td>Hadassah Medical Center, Hebrew University, Jerusalem</td>
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12:10  Role of Gut Hormone in Obesity Therapy  
Gabriella Liberman Segal  
Institute of Endocrinology, Sheba Medical Center

12:35  Leptin and Lipodystrophy  
Talia Diker-Cohen  
Institute of Endocrinology and Metabolism Rabin Medical Center, Campus Beilinson

12:50-13:50 Lunch Break and Exhibition Visit  
Dining Room

13:50-14:40  Plenary Lecture 2  
Chair: Galia Gat-Yablonski  
Hall A

DeCoding Obesity - Control of Metabolism by the Noncoding Genome  
Jan-Wilhelm Kornfeld  
Max Planck Institute for Metabolism Research, Cologne, Germany

14:40-16:10 Parallel Symposia

14:40-16:10 Symposium 3: Transitional Endocrinology  
“Tip from the Pediatric to the Adult Endocrinologist”  
Chairs: Nehama Zuckerman-Levin, Liat de Vries  
Hall A

14:40  Combined Pituitary Hormone Deficiency (CPHD): Significant Issues from Infancy to Adulthood  
Yardena Tenenbaum  
Head, Pediatric Endocrine Unit; Ha'Emek Medical Center, Afula

15:10  Osteoporosis and Related Diseases in Children  
Leonid Zeitlin  
Department of Pediatrics; Dana-Duek Children's Hospital

15:40  Disorders of gonadal differentiation  
Mariana Rachmiel  
Head, Pediatric Endocrine Unit; Assaf Harofeh Medical Center

14:40-16:10 Symposium 4: Current Topics in the Endocrine Labs – What Clinicians Should Know  
Chairs: Naftali Stern, Yulia Schneider  
Hall B

14:40  Diagnosis and Evaluation of the Hypertensive Patient and the Use of Aldosterone/Direct Renin Concentration Ratio  
Yehonatan Sharabi  
Hypertension Unit, Sheba Medical Center
15:05 Mass Spectrometry- Based Metabolomics: Application to Adrenal Diseases and More
Elena Dumin
Clinical Biochemistry Laboratory, Rambam Medical Center

15:30 National Project to Determine 11-Deoxycortisol Reference Range in the Israeli Population
Sandra Alboim
Central Laboratory Maccabi Healthcare Services

15:55 Biotin Treatment Cause Misleading Hormones Results
Hannah Kanety
Institute of Endocrinology, Sheba Medical Center

16:10-16:40 Ceremony in Honor of Prof. Y. Koch  Hall C

16:30-17:30 Meet the Professor 1  Hall A
PCOS - Tips for Endocrinologist
John E Nestler and Renato Pasquali

16:30-17:30 Meet the Professor 2  Hall B
Autoimmune Thyroid Diseases in Pregnancy
Yaron Tomer
08:15 Influence of Meal Timing on Clock Gene and Ampk mRNA Expression and Glucose, Insulin and Intact GLP-1 Response after Lunch in Type 2 Diabetes

Elected as Best Clinical Abstract

Daniela Jakubowicz1, Zohar Landau1, Julio Wainstein1, Itamar Raz2, Bo Ahren3, Nava Chapnik4, Tali Ganz1, Miriam Menaged1, Maayan Barnea5, Yosefa Bar-Dayan1, Oren Froy4

1Diabetes Unit, Wolfson Medical Center, Tel Aviv University; 2Diabetes Unit, Hadassah University Hospital, Ein Kerem, Jerusalem; 3Department of Clinical Sciences, Lund University, Sweden, Lund, Sweden; 4Department of Molecular Genetics, Weizmann Institute of Science

08:28 Increased Mortality in Diabetes Patients with Intensive Glycemic Control is Found Only in Patients with Haptoglobin Type 2-2 – Paradigm Shift Towards Genetically-Determined Personalized Glycemic Targets

Irit Hochberg1, Chen Shapira2, Uzi Milman2

1Institute of Endocrinology, Diabetes and Metabolism, Rambam Health Care Campus, Haifa; 2Haifa and Western Galilee District, Clalit Health Services; 3Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology

08:41 Therapeutic Response to Metreleptin in Childhood Onset Lipodystrophy: Experience of an Israeli Pediatric Diabetes Center

Naama Fisch Shvalb1, Shlomit Shalitin1,2, Raanan Shamir2,3, Yoram Bujanover2, Yael Lebenthal1,2

1The Jesse Z. and Sara Lea Shafer Institute for Endocrinology and Diabetes, National Center for Childhood Diabetes, Schneider Children’s Medical Center of Israel, Petah Tikva; 2Sackler Faculty of Medicine, Tel Aviv University; 3Institute of Gastroenterology, Nutrition and Liver Diseases; Schneider Children’s Medical Center of Israel, Petah Tikva; 4Gastroenterology Department, Sheba Medical Center, Tel Hashomer; 5Pediatric Endocrinology and Diabetes Unit, Dana-Dwek Children’s Hospital, Tel-Aviv Sourasky Medical Center, Tel Aviv
08:54  

**Semaphorin 3E, a Novel Adipokine with Pro Inflammatory and Insulin Resistance Properties, is Positively Correlated with Insulin Resistance in Human Pregnancy**

Rina Hemi¹, Benny Brandt², Mariam Iskilova¹, Roni Zemel³, Shali Mazaki-Tovi²,³, Hannah Kanety¹

¹Institute of Endocrinology, Sheba Medical Center, Israel  
²Department of Obstetrics and Gynecology, Sheba Medical Center, Israel  
³Sackler School of Medicine, Tel Aviv University, Israel

09:07  

**Wolfram Syndrome Type 2: New Insights into the Pathophysiology and Promising Therapy Options**

Ulla Najwa Abdulhag¹, Rahel Nechushtai⁵, Abdelsalam Abulibdeh¹, Maha Abdelhadi Atwan¹, Gil Leibowitz², Adi Aurbach¹, Eran Lavi³, Muntasser Abassi⁵, Michael Wilchansky⁵, Ola Karmi³, Y.S Sohn⁵, Ariella Weinberg-Shukron⁴, Ephrat Levy-Lahad⁴, David Zangen¹

¹Pediatric endocrinology unit; ²Adult endocrinology division, Hadassah Hebrew University Medical center, Jerusalem; ³Pediatric Gastroenterology unit, Hadassah Hebrew university Medical Center, Jerusalem; ⁴Medical genetics institute, Shaare Zedek Medical Center, Jerusalem; ⁵Faculty of science, Hebrew University, Jerusalem

09:20  

**The Adipokine FABP4 as a Regulator of Neonatal Glucose Homeostasis**

Idit Ron¹, Reut Kassif Lerner², Moran Rathaus¹, Tsipora Strauss³, Itai Pessach⁴, Keren Ofir⁵, Amir Tirosh¹,⁶

¹The Institute of Endocrinology, Sheba Medical Center, The Dalia and David Arabov Endocrinology and Diabetes Research Center, Tel-Hashomer; ²Department of Pediatrics, The Edmond and Lily Safra Children's Hospital, Sheba Medical Center; ³Department of Neonatology, The Edmond and Lily Safra Children's Hospital, Sheba Medical Center; ⁴Department of Pediatric Intensive Care, The Edmond and Lily Safra Children's Hospital, Sheba Medical Center; ⁵Department of Obstetrics and Gynecology, Sheba Medical Center, Tel-Hashomer; ⁶Sackler Faculty of Medicine, Tel-Aviv University, Ramat-Aviv
08:15-10:00  Oral Presentations: Thyroid  Hall B
Chairs: Eyal Robenshtok, Elena Izkhakov

08:15  Natural History of Contralateral Nodules after Lobectomy in Patients with Papillary Thyroid Carcinoma
Amit Ritter\textsuperscript{2,4}, Gideon Bachar\textsuperscript{2,4}, Dania Hirsch\textsuperscript{1,4}, Carlos Benbassat\textsuperscript{3,4}, Orna Katz\textsuperscript{2,4}, Nadav Kochen\textsuperscript{2,4}, Eyal Robenshtok\textsuperscript{1,4}
\textsuperscript{1}Endocrinology & Metabolism Institute, Rabin Medical Center, Beilinson Hospital
\textsuperscript{2}Department of Otorhinolaryngology and Head and Neck Surgery, Rabin Medical Center, Beilinson Hospital
\textsuperscript{3}Endocrine Institute, Assaf Harofeh Medical Center
\textsuperscript{4}Sackler Faculty of Medicine, Tel-Aviv University

08:28  Iodine Insufficiency is Prevalent in Israel: Findings of a National Survey of School Age Children and Pregnant Women in the Maccabi Healthcare Services
Yaniv Ovadia\textsuperscript{1,2}, Varda Nadler\textsuperscript{3}, Hadassa Brik\textsuperscript{1}, Tamar Wolf\textsuperscript{3}, Michael Zimmermann\textsuperscript{4}, Sandra Weibel\textsuperscript{4}, Dov Gefel\textsuperscript{2}, Jonathan Arbelle\textsuperscript{5,6}, Aron Troen\textsuperscript{1}
\textsuperscript{1}Nutrition and Brain Health Laboratory, Institute of Biochemistry, Food Sciences, and Nutrition; Robert H Smith Faculty of Agriculture, Food and Environment, Hebrew University of Jerusalem, Rehovot, Israel
\textsuperscript{2}Department of Internal Medicine "C", Barzilai Medical University Center, Ashkelon
\textsuperscript{3}Central Laboratory, Maccabi Healthcare Services, Rehovot
\textsuperscript{4}Human Nutrition Laboratory, Department of Health Sciences and Technology, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland
\textsuperscript{5}Southern Region, Maccabi Healthcare Services, Omer
\textsuperscript{6}Goldman School of Medicine, Ben Gurion University of the Negev, Beer Sheva

08:41  Long-Term Atherosclerotic Cardiovascular and Cerebrovascular Morbidity in Thyroid Carcinoma Patients: A Retrospective Cohort Study
Elena Izkhakov\textsuperscript{1,2,3}, Lital Keinan-Boker\textsuperscript{3,4}, Micha Barchana\textsuperscript{3}, Naftali Stern\textsuperscript{1,2}, Joseph Meyerovitch\textsuperscript{2,5,6}
\textsuperscript{1}Institute of Endocrinology, Metabolism and Hypertension, Tel Aviv Sourasky Medical Center, Tel Aviv
\textsuperscript{2}Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv
\textsuperscript{3}School of Public Health, Faculty of Social Welfare and Health Sciences, University of Haifa, Haifa,
\textsuperscript{4}National Cancer Registry, Israel Center for Disease Control, Ministry of Health, Israel, Ramat Gan
\textsuperscript{5}Community Division, Clalit Health Services, Tel Aviv
\textsuperscript{6}The Jesse Z and Sara Lea Shafer Institute for Endocrinology and Diabetes, National Center for Childhood Diabetes, Schneider Children's Medical Center of Israel, Petah Tikva
08:54  The Assaf Harofeh Medical Center Thyroid Cancer Registry: Clinico-Pathological Characteristics and Disease Outcome in 441 patients with Non-Medullary Thyroid Cancer
Miriam Steinschneider1,3, Shlomit Koren1,3, Karen Or1, Esther Kummer1, Carlos Benbassat1,3, Limor Muallem Kalmovich2,3
1Endocrine Institute, Assaf Harofeh Medical Center, Zerifin
2ENT Department, Assaf Harofeh Medical Center, Zerifin
3Sackler School of Medicine, Tel Aviv University, Zerifin

09:07  Hypothyroidism in Pregnancy is Associated with Twin Pregnancies and with Adverse Obstetric Outcome: Analysis of 142,277 Deliveries Data from a Single Center
Orit Barenholz-G1,2,4, Rivka Farkash1,4, Arnon Samueloff1,4, Gavriel Munter2,3,4
1Obstetrics and Gynecology, Shaare Zedek Medical Center
2Endocrinology, Shaare Zedek Medical Center
3Internal medicine C, Shaare Zedek Medical Center
4Medical School, Hebrew University, Jerusalem

09:20  Risk factors for the Development of Delayed TSH Elevation in Neonatal Intensive Care Unit (NICU) Newborns: Case Control Study
Amnon Zung1, Rachel Bier Palmon2, Agneta Golan3, Mara Troitzky4, Smadar Eventov-Friedman5, Ronella Marom6, Rimona Keidar7, Neri Kats8, Shlomo Almashanu9, Orna Flidel-Rimon10
1Pediatric Endocrinology Unit, Kaplan Medical Center and The Hebrew University of Jerusalem, Rehovot, Israel
2Division of Pediatrics, Kaplan Medical Center, Rehovot
3Neonatal Department, Soroka University Medical Center, Ben Gurion University of the Negev, Beer Sheva
4Neonatal Intensive Care Unit, The Barzilai Medical Center, affiliated with the Faculty of Health Sciences, Ben Gurion University of the Negev, Ashkelon
5Neonatology Unit, Hadassah Ein Kerem Hospital, Hadassah – Hebrew University Medical Center, Jerusalem
6Neonatology, Tel Aviv Medical Center, Tel Aviv University, Sackler faculty, Tel Aviv
7Neonatal Intensive Care Unit, Assaf Harofe Medical Center, Zerifin
8Neonatal Intensive Care Unit, Wolfson Medical Center, Holon
9National Newborn Screening Program, Ministry of Health, Public Health Services, Tel hashomer
10Neonatology Unit, Kaplan Medical Center & the Hebrew University of Jerusalem, Rehovot
09:33

Trends in the Clinicopathological Features and Clinical Outcomes of Medullary Thyroid Carcinoma – An Israeli Multicenter Study
Dania Hirsch\textsuperscript{1,8}, Orit Twito\textsuperscript{2,8}, Sigal Levy\textsuperscript{3}, Gideon Bachar\textsuperscript{4,8}, Eyal Robenshtok\textsuperscript{1,8}, David J. Gross\textsuperscript{5}, Haggi Mazeh\textsuperscript{6}, Carlos Benbassat\textsuperscript{7,8}, Simona Grozinsky-Glasberg\textsuperscript{5}.

\textsuperscript{1}Institute of Endocrinology, Rabin Medical Center, Petach Tikva
\textsuperscript{2}Institute of Endocrinology, Meir Medical Center, Kfar Saba
\textsuperscript{3}Sackler Faculty of Exact Sciences, Tel-Aviv University
\textsuperscript{4}Department of Otorhinolaryngology, Rabin Medical Center, Petach Tikva
\textsuperscript{5}Neuroendocrine Tumor Unit, Endocrinology & Metabolism Service, Department of Medicine Hadassah-Hebrew University Medical Center, Jerusalem
\textsuperscript{6}Department of Surgery, Hadassah-Hebrew University Medical Center, Jerusalem, Jerusalem
\textsuperscript{7}Institute of Endocrinology, Assaf Harofeh Medical Center, Zerifin
\textsuperscript{8}Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv

08:15-10:00

Oral Presentations: Hormones & Cancer
Hall C

08:15

Sex Differences in the Impact of Thinness, Overweight, Obesity and Parental Height on Adolescent Height
Orit Pinhas-Hamiel\textsuperscript{1,2}, Brian Reichman\textsuperscript{1,3}, Avi Shina\textsuperscript{1,5}, Estela Derazne\textsuperscript{1,4}, Dorit Tzur\textsuperscript{1}, Dror Yifrach\textsuperscript{4}, Itay Wiser\textsuperscript{1,6}, Arnon Afek\textsuperscript{1,7}, Ari Shamis\textsuperscript{1,8}, Amir Tirosh\textsuperscript{1,9,10}, Gilad Twig\textsuperscript{1,4,10,11}.

\textsuperscript{1}Sackler School of Medicine, Tel-Aviv University, Tel-Aviv
\textsuperscript{2}Pediatric Endocrine and Diabetes Unit, Edmond and Lily Safra Children’s Hospital, Sheba Medical Center, Ramat-Gan
\textsuperscript{3}The Women and Children’s Health Research Unit, Gertner Institute, Tel Hashomer, Ramat-Gan
\textsuperscript{4}The Women and Children’s Health Research Unit, Gertner Institute, Tel Hashomer, Ramat-Gan
\textsuperscript{5}The Women and Children’s Health Research Unit, Gertner Institute, Tel Hashomer, Ramat-Gan
\textsuperscript{6}Medical Corps, The Israel Defense Forces
\textsuperscript{7}Department of Obstetrics & Gynecology, Sheba Medical Center, Tel Hashomer, Ramat-Gan
\textsuperscript{8}Department of Plastic and Reconstructive Surgery, Assaf Harofeh Medical Center, Tzrifin
\textsuperscript{9}MOH, Israel Ministry of Health, Jerusalem
\textsuperscript{10}Central Management, Sheba Medical Center, Tel Hashomer, Ramat-Gan, Israel
\textsuperscript{11}The Center for Endocrinology, Diabetes and Metabolism, Sheba Medical Center, Tel-Hashomer, Ramat-Gan
\textsuperscript{10}The Dr. Pinchas Bornstein Talpiot Medical Leadership Program, Sheba Medical Center, Ramat-Gan
\textsuperscript{11}Department of Medicine B, Sheba Medical Center, Tel-Hashomer, Ramat-Gan
Peptide Receptor Radionuclide Therapy (PRRT) Efficacy in the Treatment of Functional and Metastatic Phaeochromocytoma (PCC) and Paraganglioma (PGL)
Simona Grozinsky-Glasberg¹, Grace Kong², Jason Callahan², Michael S. Hofman², Amichay Meirovitz³, Ofra Maimon³, David A. Pattison², David J. Gross¹, Rodney J. Hicks²
¹Neuroendocrine Tumour Unit, Endocrinology and Metabolism Service, Hadassah-Hebrew University Medical Centre, Jerusalem, Israel
²Centre for Cancer Imaging, Peter MacCallum Cancer Centre, Melbourne, Australia
³Oncology Department and Radiation Therapy Unit, Hadassah-Hebrew University Medical Center, Jerusalem

The Effect of the Autophagy Inhibitor Chloroquine (CQ), Alone or in Combination with mTOR Inhibitors, on Neuroendocrine Tumor (NET) Growth & Metastatic Spread in Mouse Models
Shani Avniel-Polak, Gil Leibowitz, David J. Gross, Simona Grozinsky-Glasberg
Neuroendocrine Tumor Unit, Endocrinology & Metabolism Service, Department of Medicine, Hadassah-Hebrew University Medical Center, Jerusalem

The Tumor Suppressor Klotho: A Master Regulator of Metabolism in Breast Cancer
Riva Shmulevich¹, Tammi Rubinstein¹, Tali Scherf³, Ido Wolf¹, Tami Rubinek¹
¹Institute of Oncology, Tel Aviv Sourasky Medical Center
²Sackler Faculty of Medicine, Tel Aviv University
³Faculty of Chemistry, Weizmann Institute of Science

Estrogen Receptor Activating Mutations Confer an Aggressive Phenotype to Endocrine Resistance Breast Cancer Cells Through Alteration of Tumor Metabolism
Lotem Shpigner¹, Keren Merenbakh-Lamin¹, Tomer Boldes¹, Metsada Pasmanik-Chor³, Tamar Rubinek¹, Ido Wolf¹,²
¹Institute of Oncology, Sourasky Medical Center, Tel Aviv
²Sackler Faculty of Medicine, Tel Aviv University
³The Bioinformatics Unit, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv

Pegvisomant for Acromegaly: a Cohort of 36 Israeli Patients
Ilan Shimon¹, Yona Greenman²
¹Endocrinology, Rabin-Beilinson Medical Center, Petah Tiqva; Sackler Faculty of Medicine, Tel Aviv University
²Endocrinology, Tel Aviv Sourasky Medical Center; Sackler Faculty of Medicine, Tel Aviv University
09:27  The Role of the Nucleolar Protein PICT-1 in the Tumorigenesis of Neuroendocrine Tumors and its Interaction with the p53 Pathway
Yifat Bareli¹, Ana Tobar², Ilan Shimon¹, Hadara Rubinfeld¹
¹Institute of Endocrinology and Felsenstein Medical Research Center, Rabin Medical Center; Tel Aviv University, Sackler School of Medicine, Petach Tikva
²Department of Pathology, Rabin Medical Center, Petach Tikva

10:00-10:15  Coffee Break, Refreshments and Exhibition Visit

10:15-11:00  Posters View  Hall D

11:00-12:35  General Assembly and Prizes Session  Hall A
Chair: Avraham Karasik

11:00  The Challenging Universe of Neuroendocrine Tumors: From Bench to Bedside and Back Again
Simona Grozinsky- Glasberg – Recipient of The Hans Lindner Prize
Neuroendocrine Tumor Unit, Endocrinology & Metabolism Service, Department of Medicine Hadassah-Hebrew University Medical Center, Jerusalem

11:25  When Glucose Goes Down, Mortality Goes up
Amit Akirov - Recipient of The Israel Chowers Prize
Endocrinology & Metabolism Institute, Rabin Medical Center, Beilinson Hospital

11:40  Prizes of Best Clinical / Basic Abstracts

11:55  IES Members Assembly Meeting:
Vaad Report
Accountant Report

12:30-13:30  Lunch Break and Exhibition Visit  Dining Room

13:30 - 14:20  Plenary Lecture 3  Hall A
Chair: Carlos Benbassat
Autoimmune Thyroid Diseases: From Gene Mapping to Novel Drug Targets
Yaron Tomer
Chair, Department of Medicine, Albert Einstein College of Medicine, NY, USA
### Parallel Symposia

**Symposium 5: The Year in Endocrinology**  
**Hall A**  
**Chairs:** Ben Glaser, Yona Greenman

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| 14:20 | The Year in Reproduction                          | Tal Imbar  
*IVF Unit, Human Placenta Research Center; Dept. of Obstetrics & Gynecology; Hadassah-Hebrew University Medical Center* |
| 14:50 | The Year in Pituitary                              | Ilan Shimon  
*Institute of Endocrinology and Metabolism Rabin Medical Center, Campus Beilinson* |
| 15:20 | The Year in Adrenal                               | Merav Fraenkel  
*Endocrine Unit Soroka Medical Center* |

**Symposium 6: Cellular Heterogeneity**  
**Hall B**  
**Chairs:** Yehiel Zick, Gil Leibowitz

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| 14:20 | Heterogeneity of Adipose Tissues and Cells - A Basis for Subphenotyping Obesity | Assaf Rudich  
*Department of Clinical Biochemistry. Faculty of Health Sciences, Ben Gurion University* |
| 14:50 | Cellular Heterogeneity in the Liver: From Single RNA Molecule Organization to Organ Function | Shalev Itskovitz  
*Department of Molecular Cell Biology, Weizmann Institute of Science* |
| 15:20 | Plasticity of the Endocrine Pancreas in Diabetes               | Yuval Dor  
*Department of Developmental Biology and Cancer Research; The Hebrew University-Hadassah Med School* |

**Coffee Break & Exhibition Visit**

**Meet the Professor 1**  
**Hall A**  
Short Stature. Does Changing Height Matter?  
Zeev Hochberg

**Meet the Professor 2**  
**Hall B**  
Fragile and Challenging Cases in the Bone Metabolism Clinic  
Pnina Rotman and Iris Vered
Posters

The 46th Annual Meeting
of The Israel Endocrine Society

20-21, March, 2017
Kfar Maccabiah Hotel
Ramat-Gan

Organized by:
1. **Does Ketoacidosis at Onset of Type 1 Diabetes is a Predictor of Long-Term Metabolic Control?**
   Shlomit Shalitin\(^1\),\(^2\), Sharon Polanski\(^2\), Michal Yackobovitz-Gavan\(^1\),\(^2\), Yael Lebenthal\(^1\),\(^2\), Liat de Vries\(^1\),\(^2\), Liora Lazar\(^1\),\(^2\), Ariel Tenenbaum\(^1\), Moshe Phillip\(^1\),\(^2\)
   \(^1\)The Jesse Z. and Lea Shafer Institute of Endocrinology and Diabetes, 1 Schneider Children's Medical Center of Israel, Petach Tikva; \(^2\)Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv

2. **The Real-Life Appearance of Ketoacidosis in T2DM Patients Treated with SGLT2 Inhibitors**
   Shmuel Levit\(^1\), Vyacheslav Levit\(^2\), Royi Barnea\(^3\), Julio Wainstein\(^4\), Ifat Abadi-Korek\(^5\)
   \(^1\)Institute of Endocrinology, Diabetes & Metabolism, Assuta Medical Center, Tel-Aviv
   \(^2\)Department of Disease prevention, City Clinical Hospital №8, Chelyabinsk, Chelyabinsk, Russia;
   \(^3\)Department of Academy and Research, Assuta Medical Center, Tel-Aviv
   \(^4\)Institute of Diabetes, Edith Wolfson Medical Center affiliated to Sackler School of Medicine Tel-Aviv University, Israel, Holon

3. **The Incidence of Type 1 Diabetes Is Increasing faster in Familial than in Sporadic Cases. Eighteen Years of the Israeli Pediatric Diabetes Registry**
   Amnon Zung\(^1\), Wasef Na'amnihil\(^2\), Yulia Bluednikov\(^2\), Nisim Mery\(^2\), Orit Blumenfeld\(^2\)
   \(^1\)Pediatric Endocrinology Unit, Kaplan Medical Center and The Hebrew University of Jerusalem, Rehovot; \(^2\)Israel Centers for Disease Control, Ministry of Health, Tel Hasomer

4. **The Relations Between Different Risk Factors for Type 2 Diabetes Mellitus and Glucose Levels in People without Diabetes in Different Sectors in the North of Israel**
   Amir Bashkin\(^1\),\(^2\), Ronit Yakobi\(^3\)
   \(^1\)Endocrinology and Diabetes, Galilee Medical Center, Naharia; \(^2\)Medical School, Bar Ilan University, Zefat; \(^3\)Orthopedic A, Galilee Medical Center, Naharia

5. **The Effect of Admission on Glycemic Control in Elderly Patients with Diabetes Mellitus**
   Orit Erman\(^1\), Ilan Shimon\(^2\),\(^3\), Tzipora Shochat\(^4\), Amit Akirov\(^2\),\(^3\)
   \(^1\)Department of internal medicine A, Rabin Medical Center, Beilinson Hospital, Petach Tikva, Israel
   \(^2\)Institute of Endocrinology, Rabin Medical Center, Beilinson Hospital, Petach Tikva
   \(^3\)Sackler School of Medicine, Tel Aviv University, Tel Aviv
   \(^4\)Statistical Consulting Unit, Rabin Medical Center, Beilinson Hospital, Petach Tikva
6. **Admission Blood Glucose and Long Term (10-year) Mortality among Patients with or without Pre-existing Diabetes Mellitus Hospitalized with Heart Failure**

Osnat Itzhaki Ben Zadok¹,⁴, Ran Kornowski¹,⁴, Ilan Goldenberg²,⁴, Robert Klempfner²,⁴, Yoel Toledano³,⁴, Yitschak Biton², Alexander Tenenbaum²,⁴, Gregory Golovchiner¹, Ehud Kadmon¹,⁴, Alexander Omelchenko¹, Tuvi Ben Gal¹,⁴, Boris Strassberg¹,⁴, Alon Barsheshet¹,⁴

¹Department of Cardiology, Rabin Medical Center; ²“Leviev” Heart Center, Sheba Medical Center, Tel Hashomer; ³Division of Maternal Fetal Medicine, Helen Schneider Hospital for Women, Rabin Medical Center; ⁴Sackler Faculty of Medicine, Tel Aviv University


Tali Cukierman-Yaffe¹,², Rachel Natovich¹

¹Endocrinology Institute, Sheba Medical Centre
²Epidemiology, Sackler School of Medicine, Tel-Aviv University

8. **Do Adding B Vitamins and Folate to Metformin Treatment has Beneficial Effect on Renal Function and HDL cholesterol in Patients with type 2 Diabetes?**

Marina Shargorodsky, Elena Omelchenko

Endocrinology, Wolfson Medical Center


Hofit Cohen¹,³, Orit Pinhas-Hamiel²,³, Dror Harats¹,³, Rafael Bitzur¹,³, Kineret Mazor- Aronovitch²,³

¹The Bert W. Strassburger Lipid Center, The Chaim Sheba Medical Center, Ramat Gan; ²Pediatric Endocrine and Diabetes Unit, Edmond & Lilly Safra’s Children Hospital, Chaim Sheba Medical Center, Ramat Gan; ³Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv

10. **Gestational Diabetes Risk in Three Israeli Population Subgroups**

Anat Jaffe¹, Carmit Rubin², Ilia Nvokov², Shmuel Giveon³, Arona Ziv³, Ofra i Kalter-Leibovic⁴

¹Endocrinology & diabetes unit, Hill Yaffe Medical Center, Hadera; ²Information and computer unit, Gertner Institute for Epidemiology & Health Policy Research, Sheba Medical Center, Ramat Gan; ³Family practice and public health, Clalit Health services Sharon Shomron District, Tel Aviv; ⁴Unit of Cardiovascular Epidemiology, Gertner Institute for Epidemiology & Health Policy Research, Sheba Medical Center, Ramat Gan
11. Placental Maternal and Fetal Vascular Circulation in Healthy Non Obese and Metabolically Healthy Obese Pregnant Women. Metabolically Healthy Obese, But are They Really?
Marina Shargorodsky, Michal Kovo, Jacob Bar
Endocrinology, Wolfson Medical Center

12. Does a First-Degree Family History of Diabetes Impact Placental Vascular Circulation, Inflammatory Placental Lesions, and Pregnancy Outcome?
Marina Shargorodsky, Jacob Bar
1) Department of Endocrinology, Edith Wolfson Medical Center, Holon, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv; 2) Department of Obstetrics & Gynecology, Edith Wolfson Medical Center

13. High Serum Estradiol Defines a Sub-Phenotype of the Metabolic Syndrome (MS) in Men and May Protect from the Metabolic and Vascular Sequels of Obesity
Yonit Marcus, Gabi Shefer, Jessica Sack, Brurya Tal, Galina Shenkerman, Mariana Yaron, Yael Sofer, Iris Yaish, Eliezer Carmeli, Naftali Stern
1) Institute of Endocrinology, Metabolism and Hypertension, Tel Aviv Sourasky Medical Center and Sackler Faculty of Medicine, Tel Aviv; 2) Department of Physical Therapy, University of Haifa, Haifa

14. The Role of FABP4 in the Pathophysiology of Gestational Diabetes
Moran Rathaus, Idit Ron, Benny Brandt, Shali Mazaki-Tovi, Amir Tirosh
1) The Institute of Endocrinology, The Dalia and David Arabov Endocrinology and Diabetes Research Center, Tel Hashomer; 2) Department of Obstetrics and Gynecology, Sheba Medical Center, Tel Hashomer; 3) Sackler Faculty of Medicine, Tel Aviv University, Ramat Aviv

15. The Effect of Ethnic Origin on Gestational Diabetes Mellitus in a University Affiliated Hospital in the Center of Israel
Ronit Koren, Shlomit Koren, Yifat Wiener
1) Department of Internal Medicine A; 2) Division of Maternal Fetal Medicine, Department of Obstetrics and Gynecology; 3) Endocrine Institute; 4) Diabetes Unit, Assaf Harofeh Medical Center, Zerifin; 5) Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv

Viviana Ostrovsky, Taiba Zornitzki, Shimon Sapojnikov, Luydmila Lyssy, Tal Schiller, Nitza Vazana, Hilla Knobler
1) Diabetes, Endocrinology and Metabolic Disease Institute, Kaplan Medical Center, Rehovot; 2) Bariatric Surgery Unit, Kaplan Medical Center, Rehovot; 3) Diabetes and Endocrinology, Maccabi Medical Service, Rishon Lezion
17. A New Obesity Phenotype in Older (≥ 65yrs) Subjects: The Co-Presence of Frailty and Functional Limitations is Linked to Central Obesity
Assaf Buch1,2,3, Eli Carmeli1,4, Yitshal Berner2,5, Liat Keinan Boker6,7, Ofer Kis1, Gabi Shefer1,2, Yonit Marcus1,2, Rebecca Goldsmith8, Yaniv Stein9, Lee Gold9, Naftali Stern1,2
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18. Should Bariatric Surgery be offered to Obese Patients with Type 1 Diabetes?
Zohar Landau1,2,4, Daniela Jakubowicz2,3, Tal Ben-Ari1,2, Julio Weinstein2,3, Yosefa Bar-Dayan2,3, Galit Kowen4
1Pediatric Endocrinology, E. Wolfson Medical Center, Holon; 2Sackler School of Medicine, Tel Aviv University, Tel Aviv; 3Diabetes Unit, E. Wolfson Medical Center, Holon 4Maccabi National Juvenile Diabetes Center, Maccabi Health Services, Raanana

19. The Food Preservative Propionic Acid as a Diabetogenic and Obesogenic Factor
Amir Tirosh1,2,3,4, Ediz S. Calay1, Gurol Tuncman1, Kathryn C. Calaborn1, Kosei Eguchi1, Michael Alcala1, Moran Rathaus5, Kenneth Hollander5, Idit Ron5, Rajesh Garg2, Gökhan S. Hotamisligil1
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20. Gene Therapy for Diet-Induced Obesity with Platelet Type 12-Lipoxygenase Antisense: In Vitro and In Vivo Studies
Yael Sofer, Nathan Landis, Etty Osher, Judith Rondel, Gary Weisinger, Naftali Stern Endocrinology, metabolism and Hypertension, Tel Aviv-Sourasky Medical Center and Sackler Faculty of Medicine, Tel Aviv University

21. Hepatic CB1 Receptor Promotes Leptin Resistance via Regulating Soluble Leptin Receptor Levels
Adi Drori1, Rivka Hadar1, Daniel Wesley2, Joseph Tam1
1Obesity and Metabolism Laboratory, Institute for Drug Research, School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem; 2Laboratory of Physiological Studies, National Institute on Alcohol Abuse & Alcoholism, USA
22. **Novel Compound Heterozygous Truncating Mutations in Phosphoglucomutase 1 Gene Causes Galactose Responsive Severe Hypoglycemic Episodes in a Patient with Pierre Robin Sequence**

Adi Auerbach\(^1\), Rebecca Brooks\(^2\), Nitay D. Fraenkel\(^3\), Stanley Korman\(^4\), Ann Saada\(^5\), Ariella Weinberg Shokrun\(^6\), Ephrat Levy-Lahad\(^6\), David Zangen\(^1\)

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23. **The Role Of MiRNAs In Maintenance of Beta Cell Replication and Mass**

Amitai Mandelbaum, Sharon Kredo-Russo, Haggai Kaspi, Eran Hornstein

*Molecular Genetics, Weizmann Institute of Science*

24. **The Role of MicroRNAs In Maintenance of Pancreatic Beta-Cell Identity**

Eran Yanowski, Eran Hornstein

*Molecular Genetics, Weizmann Institute of Science*
25. Pediatric Reference Values of Thyrotropin (TSH) Should be Personalized According to Child Characteristics
Tal Oron¹², Ilan Feldhamer³, Mira Manor⁴, Joseph Meyerovitch¹²⁵
¹Institute for Endocrinology and Diabetes, National Centre for Childhood Diabetes, Schneider Children’s Medical Center of Israel, Petah-Tikva; ²Sackler Faculty of Medicine, Tel Aviv University, Tel-Aviv; ³Department of Research and Information, Chief Physician Office, Clalit Health Services, Tel-Aviv; ⁴Central Laboratory, Clalit Health Services, Tel-Aviv; ⁵Chief Pediatrician, Medicine Wing, Community Division, Clalit Health Services, Tel-Aviv

26. The Epidemiology of Thyroid Dysfunction and Effectiveness of TSH Screening in Medical Inpatient
Amir Bashkin¹², Eliran Yakobi²
¹Endocrinology and Diabetes, Galilee Medical Center, Naharia; ²Medical School, Bar Ilan University, Zefat

27. FT3 Decreases Through Life, More in Males Than in Females; But Levels Equalize in Elderly
David Strich¹², Gilad Karavani³, Cherut Chay⁵, David Gillis⁴
¹Pediatrics, Shaare-Zedek Medical Center; ²Endocrinology, Pediatric Specialist Clinics, Clalit Health services; ³Obstetrics and Gynecology, Hadassah-Hebrew University Medical Center; ⁴Pediatrics and Pediatric Endocrine Unit, Hadassah-Hebrew University Medical Center; ⁵School of Medicine, Technion

28. Body Composition, Resting Energy Expenditure and Metabolic Changes in Differentiated Thyroid Carcinoma Female Patients
Elena Izkhakov¹²³, Micha Barchana³, Nachum Vaisman²⁴, Naftali Stern¹², Lital Keinan-Boker³⁵
¹Institute of Endocrinology, Metabolism and Hypertension, Tel Aviv Sourasky Medical Center, Tel Aviv; ²Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv; ³School of Public Health, Faculty of Social Welfare and Health Sciences, University of Haifa, Haifa; ⁴Unit of Clinical Nutrition, Tel Aviv Sourasky Medical Center, Tel Aviv; ⁵National Cancer Registry, Israel Center for Disease Control, Ministry of Health, Ramat Gan

29 Thyroid Disease in Pregnancy: A Clinical Survey Among Endocrinologists Gynecologists and Obstetricians in Israel
Ronit Koren Peleg¹²⁵, Yifat Wiener²⁵, Karen Or¹³⁵, Carlos A. Benbassat³⁵, Shlomit Koren³⁴⁵
¹Department of Internal Medicine A; ²Division of Maternal Fetal Medicine, Department of Obstetrics and Gynecology; ³Endocrine Institute; ⁴Diabetes Unit; Assaf Harofeh Medical Center, Zerifin; ⁵Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv
30. **Management of Relapsing Graves: A Clinical Survey Among Endocrinologists in Israel**
   Shlomit Koren¹, Miriam Shteinshnaider¹, Karen Or¹, Dror Cantrell¹,³,
   Carlos A. Benbassat¹, Ronit Koren¹,²
   ¹Endocrine Institute, Assaf Harofeh Medical Center, Zerifin
   ²Department of Internal Medicine A,³Department of Internal Medicine C, Assaf Harofeh Medical Center, Zerifin

31. **Plasmapheresis in Treating Severe Graves’ Thyrotoxicosis: A Case Report**
   Anat Jaffe¹, Hannah Kanety², Rina Hemi², Ehud Barhod², Hagith Yonath³, Amir Tirosh⁴
   ¹Endocrinology & diabetes unit, Hill Yaffe Medical Center, Hadera; ²The Endocrinology Laboratory; ³Internal Medicine A,⁴The Institute of Endocrinology, Sheba Medical Center, Ramat Gan

32. **Approach to a Monofocal Papillary Thyroid Cancer: A Clinical Survey Among Adult Endocrinologists and Surgeons in Israel**
   Carlos Benbassat¹,³, Karen Or¹, Shlomit Koren¹,³, Miriam Steinschneider¹,³,
   Esther Kummer¹, Ronit Koren¹,³, Limor Muallem Kalmovich²,³
   ¹Endocrine Institute, Assaf Harofeh Medical Center, Zerifin; ²ENT Department, Assaf Harofeh Medical Center, Zerifin; ³Sackler School of Medicine, Tel Aviv University, Tel Aviv

33. **The Bethesda System for Reporting Thyroid Cytopathology (BSRTC) at a Tertiary Center in a Country with High Rates of Thyroid Cancer**
   Rachel Rosenblum¹, Iris Yaish², Sophie Barnes³, Sylvia Marmor⁴, Alexander Shtabsky⁴,
   Moshe Yehuda⁵, Naftali Stern², Karen Tordjman²
   ¹Medicine, Clalit Health Services; ²Institute of Endocrinology, Tel Aviv Sourasky Medical Center, Tel Aviv; ³Radiology Department, Tel Aviv Sourasky Medical Center, Tel Aviv;
   ⁴Institute of Pathology, Tel Aviv Sourasky Medical Center, Tel Aviv; ⁵Ear Nose and Throat Department, Tel Aviv Sourasky Medical Center, Tel Aviv

34. **Trends of Second Primary Malignancy in Patients with Thyroid Cancer: A Population-Based Cohort Study in Israel**
   Elena Izkhakov¹,², Micha Barchana², Irena Liphshitz³, Barbara Silverman³,
   Naftali Stern¹, Lital Keinan-Boker²,³
   ¹Institute of Endocrinology, Metabolism and Hypertension, Tel Aviv Sourasky Medical Center affiliated to the Tel Aviv University, Tel Aviv; ²School of Public Health, Faculty of Social Welfare and Health Sciences, University of Haifa, Haifa; ³Israel National Cancer Registry, Israel Center for Disease Control, Ministry of Health, Ramat Gan,

35. **The Impact of Minimal Extra-Thyroidal Extension on Outcome in Differentiated Thyroid Cancer: Systematic Review and Meta-analysis**
   Talia Diker-Cohen¹,³, Dania Hirsch¹,³, Carlos Benbassat²,³, Ilan Shimon¹,³, Amit Akirov¹,³,
   Eyal Robenshtok¹,³
   ¹Endocrinology & Metabolism Institute, Rabin Medical Center, Beilinson Hospital;
   ²Endocrine Institute, Assaf Harofeh Medical Center; ³Sackler Faculty of Medicine, Tel-Aviv University
36. **Be Aware of the Patient with Thyroid Benign Follicular Lesions and a Rising Thyroglobulin Level**
Ilana Slutzky-Shraga\(^1,4\), Yulia Sternov\(^1,2,4\), Eyal Robinshtock\(^1,4\), Gloria Tzvetov\(^1,4\), Carlos Benbassat\(^3,4\), Dania Hirsch\(^1,4\)
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\(^3\)Endocrine Institute, Assaf Harofeh Medical Center, Zerifin
\(^4\)Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv

37. **The Impact of Age and Gender on Medullary Thyroid Cancer Presentation and Prognosis - An Israeli Multicenter Study**
Orit Twito\(^1\), Simona Grozinsky-Glasberg\(^2\), Carlos Benbassat\(^3,7\), Sigal Levy\(^4\),
David J. Gross\(^2\), Gideon Bachar\(^5,7\), Dania Hirsch\(^6,7\)
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38. **The Role of Hepatic Trans-Arterial Chemoembolization in Metastatic Medullary Thyroid Carcinoma: A Specialist Center Experience and Review of the Literature**
Simona Grozinsky-Glasberg\(^1\), Allan I. Bloom\(^2\), Naama Lev-Cohain\(^2\), Hashem Besiso\(^1\),
Alexander Klimov A\(^2\), David J. Gross\(^1\)
\(^1\)Neuroendocrine Tumor Unit, Endocrinology & Metabolism Service, Department of Medicine, Hadassah-Hebrew Medical Center, Jerusalem; \(^2\)Department of Radiology, Hadassah-Hebrew Medical Center, Jerusalem
39. **Severe Hypocalcaemia due to Autoimmune Enteropathy in a Girl with Autoimmune Polyglandular Syndrome Type 1**
   Marie Noufi-Barhoum, Sarit Peleg, Philippe Trougouboff, Ronen Spiegel, Yardena Tenenbaum-Rakover
   1Pediatric Endocrine Institute, Ha’Emek Medical Center, Afula; 2Gastroenterology Unit, Ha’Emek Medical Center, Afula; 3Clalit Health Service Haifa and Western Galilee district, Nahariya; 4Pathology Department, Ha’Emek Medical Center, Afula; 5Pediatric Department B, Ha’Emek Medical Center, Afula; 6Rappaport Faculty of Medicine, Technion, Haifa; 7Faculty of Medicine in the Galilee, Bar-Ilan University, Safed

40. **Three Generations of an Israeli Family Diagnosed with Autosomal Dominant Activating Mutation of the Calcium Sensing Receptor (CaSR) Gene**
   Ilana Koren, Amir Peleg, Lena Sagi-Dain, Amalia Harari-Shaham, Gal Larom-Kahan, Auryan Szalat
   1Pediatric Endocrinology Clinic; 2The Human Genetic Institute, Carmel Medical Center, Haifa; 3Endocrinology and metabolism Service Internal Medicine Department, Hadassah Hebrew University Medical Center, Jerusalem

41. **Elevated Ferritin and Circulating Osteoprotegerin Levels as Independent Predictors of Hip Fracture in Postmenopausal Women Admitted for Fragility Fracture**
   Marina Shargorodsky, Zeev Feldbrin
   1Orthopedics, Wolfson Medical Center; 2Endocrinology, Wolfson Medical center

42. **Bone Mineral Density in Hospital Male Physicians Over the Age of 65**
   Noa Sylvetsky, Chen Futerman, Meir Frankel, Gabriel Munter
   Endocrinology unit, Shaare zedek Medical Center, Jerusalem

43. **Hypercalcaemia of Pregnancy**
   Ronit Koren, Ortal Neeman, Shlomit Koren, Carlos A. Benbassat
   1Department of Internal Medicine A; 2Division of Maternal Fetal Medicine, Department of Obstetrics and Gynecology; 3Endocrine Institute; 4Diabetes unit, Assaf Harofeh Medical Center, Zerifin; 5Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv

44. **Successful Short-Term Growth Hormone Treatment for a Rare Bone Dysplasia**
   Tal Ben-ari Sekel, Zohar Landau
   1Pediatric Endocrinology and Diabetes Unit, Edith Wolfson Medical Center, Holon, Israel; 2Sackler Faculty of Medicine, Tel Aviv University, Tel-Aviv

45. **Tertiary Center Experience with Fibrous Dysplasia Patients: Clinical Variables and Medical Treatment**
   Liana Tripto Shkolnik, Iris Vered
   Institute of Endocrinology, Chaim Sheba Medical Center, Tel-Hashomer
46. **Long-Term Efficacy of Zoledronic Acid in Patients with Paget’s Disease of Bone with Respect to Previous Bisphosphonate Treatment**
Alexander Gorshtein1,2, Ilana Slutzky-Shraga1,2, Gloria Tsvetov1,2, Dania Hirsch1,2
1Institute of Endocrinology, Rabin Medical Center, Beilinson Hospital, Petach Tikva
2Sackler Faculty of Medicine, Tel Aviv University

47. **Trabecular Bone Score Uncovers Osteopenia and Osteoporosis in a Large Fraction of Patients with the Metabolic Syndrome**
Vanessa Rouach1, Yonit Marcus1, Mariana Yaron1, Jessica Zack1, Galina Shenkerman1, Gabi Sheffer1, Yael Sofer1, Eliezer Carmeli2, Naftali Stern1
1Institute of Hypertension, Metabolism and Endocrinology, Tel Aviv Sourasky Medical Center and Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv
2Department of Physical Therapy, University of Haifa, Haifa

48. **Vertebral Fractures in Israeli Patients Following Denosumab Discontinuation**
Liana Tripto-Shkolnik1, Vanessa Rouach2, Yonit Marcus2, Carlos Benbassat3, Iris Vered1
1Institute of Endocrinology, The Chaim Sheba Medical Center, Tel Hashomer
2Institute of Endocrinology, Metabolism and Hypertension, Assaf Harofeh Medical Center3; Institute of Endocrinology, Assaf Harofeh Medical Center3

49. **Correlation of Distal Radius Bone Density with Fracture Risk Determined by WHO Fracture Risk Assessment Model (FRAX)**
Liana Tripto-Shkolnik1, Naama Peltz-Sinvani2, Amir Tirosh1, Iris Vered1
1Institute of Endocrinology, The Chaim Sheba Medical Center, Tel-Hashomer
2Internal medicine "I", The Chaim Sheba Medical Center, Tel-Hashomer

50. **Fracture Risk Assessment with FRAX: Validation using Real-World Data**
Inbal Goldshtein1,2, Yariv Gerber3, Sophia Ish-Shalom4, Moshe Leshno4
1Faculty of Management, Tel Aviv University, Tel Aviv; 2Research, Maccabi Healthcare Services; 3Faculty of Medicine, Tel Aviv University; 4Endocrinology, Elisha Hospital

51. **Soroka Fracture Liaison Service (FLS) – Rates of Mortality and Second Hip Fracture**
Vitaly Medvedovsky1, Uri Yoel,1 Uri Baraf1, Dayana Cohen1, Tamar Eshkoli1, Avital Blum2, Vera Polischuk3, Poliana Shamgar2, Michal Lamberger2, Orly Weinstein4, Dvora Lieberman5, Victor Novack2, Ethel Siris6, Merav Fraenkel1
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52. **Patients Knowledge and Opinions Regarding Osteoporosis, Osteoporotic Treatment and Oral Health**  
Pnina Rotman-Pikielny1,4, Marina Leonenko2,4, Liat Barzilai1,4, Dan Nabriski1,4, Orit Twito1,4, Ronit Kagan3,4  
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53. **Virtual Orthopedic-Rehabilitation-Metabolic Collaborative Management for Osteoporotic Hip Fracture**  
Osnat Tell Lebanon1,7, Doron Netzer5,7, Eyal Yaacobi2,7, Yitshal Berner3,7, Devorah Spiegel4, Rakefet Bacharach6, Dan Nabriski1,7, Meir Nyska2,7, Yaron Brin2,7, Pnina Rotman-Pikielny1,7  
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54. **The Use of Clinical Data Repository for the Establishment of an Osteoporosis Registry: Epidemiologic Findings**  
Inbal Goldshtein1,2, Vanessa Rouach3,6, Gabriel Chodick1,3, Moshe Ekshtein4, Yosef Rosenblum2,5, Varda Shalev1,3  
1Research, Maccabi Healthcare Services; 2Medical Informatics, Maccabi Healthcare Services; 3Faculty of Medicine, Tel Aviv University; 4Information technology, Assuta Medical Hospitals; 5Medical Informatics, Maccabi Healthcare Services; 6Endocrinology, Ichilov Hospital

54 A. **Fever and Hypocalcemia following in Hospital Osteoporosis Treatments: The Soroka FLS Experience**  
Lior Baraf1, Uri Yoel1, Vitaly Medvedovsky1, Dayana Cohen1, Tamar Eshkoli1, Avital Blum2, Vera Polischuk3, Poliana Shamgar2, Michal Lamberger2, Orly Weinstein1, Dvora Lieberman2, Victor Novack2, Ethel Siris6, Merav Fraenkel1  
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55. **Resistant Prolactinomas: A Cohort of 17 Israeli Patients**
Merav Fraenkel, Dayana Cohen, Uri Yoel, Tamar Eshkoli, Gloria Tsvetov, Alex Gorshtein, Ilan Shimon
1Endocrinology, Soroka University Medical Center and the Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva; 2Endocrinology, Rabin-Beilinson Medical Center and Sackler Faculty of Medicine, Tel-Aviv University, Petah-Tiqva.

56. **The Importance of Cannulated Prolactin Testing as Part of the Investigation of Hyperprolactinemia**
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57. **Preparation, Characterization and In Vitro Evaluation of Non-Pegylated and Pegylated Chicken and Human Prolactins**
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58. **Somatostatin Receptors in Pancreatic Adenocarcinoma: A Novel Therapeutic Target**
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59. **Unique Case of Familial Pheochromocytoma Presenting with Severe End Organ Damage**
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60. **Phaeochromocytoma-Paraganglioma (PPGL): Post-Operative Hypotension is a Vanishing Phenomenon**
Esther Osher, Karen Tordjman, Joseph Klausner, Boaz Sagie, Yona Greenman, Yael Sofer, Naomi Even Zohar, Michal Yaacobi-Bach, Danna Zeid, Merav Serebro, Nir Lubezky, Ravit Geva, Sophi Barnes, Naftali Stern
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61. **A Single Center Experience Treating Neuroendocrine Tumors during 2005-2015: The lung NET Subfamily, Clinico-Pathological Characteristics and Disease Outcome**
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62. **Gastroenteropancreatic Neuroendocrine Tumors (GEP-NETs): Clinico-Pathological Characteristics and Disease Outcome of 110 Patients Treated at Single Referral Medical Center in Israel**
Herman Gratianaέ⁵, Karen Or¹, Steinschneider Miri¹,⁶, Kummer Esti¹, Yarom Nirit², Shirin Haim³,⁶, Lavy Ron⁴, Benbassat Carlos¹,⁶, Shlomit Koren¹
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63. **Central Diabetes Insipidus as Early Presentation of Erdheim-Chester Disease**
Elena Chertok Shacham, Avraham Ishay
Endocrinology, Ha-Emek Medical Center

64. **Clinical Experience with Adrenal Venous Sampling in Differentiating Unilateral vs. Bilateral Primary Aldosteronism**
Kira Oleinikov¹, Leonard Saiegh¹, Carmela Shechner¹, Mohammad Sheikh-Ahmad¹, Maria Reut¹, Monica Laniado², Ibrahim Matter², Robert Sachner³
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65. **Ascorbic Acid Treatment for Patients with Combined Mineralocorticoid and Glucocorticoid Deficiency Secondary to Nicotinamide Nucleotide Transhydrogenase Mutation**
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66. **Characterization of Orthopedia-Expressing Neurons in the Arcuate Nucleus**
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67. **Role of Micro-RNAs in Thrombospondin-1 Expression in Bovine Luteal Cells**  
Svetlana Farberov, Rina Meidan  
Department of Animal Sciences, The Robert H. Smith Faculty of Agriculture, Food & Environment, The Hebrew University of Jerusalem, Rehovot

68. **Interferon Tau Inhibits Luteolytic Responsive Genes In Bovine Corpus Luteum**  
Raghavendra Basavaraja, Rina Meidan  
Department of Animal Sciences, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot; Department of Veterinary Resources, Weizmann Institute of Science, Rehovot; 4Molecular Cell Biology, Department of Molecular Cell Biology, Weizmann Institute of Science, Rehovot

69. **Differential Roles of PKC Isoforms (PKCs) and Ca^{2+} in GnRH and Phorbol 12-myristate 13-acetate (PMA) Stimulation of p38MAPK Phosphorylation in Immortalized Gonadotrope Cells**  
Shany Mugami, Zvi Naor  
Biochemistry and Molecular Biology, Tel Aviv University

70. **GnRH induces ERK-dependent bleb formation in gonadotrope cells, Involving Recruitment of Members of a GnRH Receptor-Associated Signalosome to the Blebs**  
Liat Rahamim-Ben Navi, Zvi Naor  
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71. **Familial 46XY Sex Reversal Caused by a Deletion of an Enhancer Upstream of the SOX9 Gene**  
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72. **Long-Term Anthropometric Outcome of Girls with Non-Classical Congenital Adrenal Hyperplasia Diagnosed In Childhood**  
Rachel Bello¹, Yael Lebenthal¹,², Ariel Tenenbaum¹,², Liora Lazar¹,², Shlomit Shalitin¹,², Moshe Phillip¹,², Liat de Vries¹  
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73. **Pediatric to Adult Transition Clinic in Endocrinology: Clinical Importance, Adherence to Follow-Up and Patient Satisfaction**  
Orit Twito¹, Rachel Shatzman-Steueremen², Nitzan Dror², Dan Nabriski³, Alon Eliakim²,³  
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74. **Effects of a Stressful Environment (SE) on Height, BMI and Menarche**  
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